

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions of claims in the application.

1 – 8 (Canceled):

9. (New): An implant consisting of a bioadaptable material comprising an adenoviral or retroviral vector carrying a gene of an osteo-inducible transcription factor Cbfa1.

10. (New): The implant according to claim 9, wherein the bioadaptable material is any member selected from the group consisting of hydroxyapatite, α -TCP, β -TCP, collagen, polylactic acid, hyaluronic acid, polyglycolic acid, and a complex of any thereof.

11. (New): The implant according to claim 10, wherein the bioadaptable material is a porous body consisting of a synthetic polymer composite synthesized from hydroxyapatite, β -TCP, or D, D-L, and L-polylactic acid.

12. (New): The implant according to claim 11, wherein the bioadaptable material is porous β -TCP.

13. (New): The implant according to claim 9, wherein the bioadaptable material comprises an adenoviral or retroviral vector adsorbed thereon.